



PEHRTM Technologies
Your medical records, when you need them.

Personal Health Records

A HealthIT Building Block

Presentation to
HIIAB



John W. Robinson, M.D.
March 23, 2006



PEHRTM Technologies
Your medical records, when you need them.

Objectives

1. What is a PHR?
2. The need for PHR
3. Types of PHRs
4. The BartlettTM by PEHR
5. Q & A



PEHRTM Technologies
Your medical records, when you need them.

What is a PHR?

1. Patient centered system
2. Tracks and supports health info from one's entire lifetime
3. Not limited to a single organization or health care provider
4. Contains info provided by the patient
5. Accessible from any place at any time, 24/7



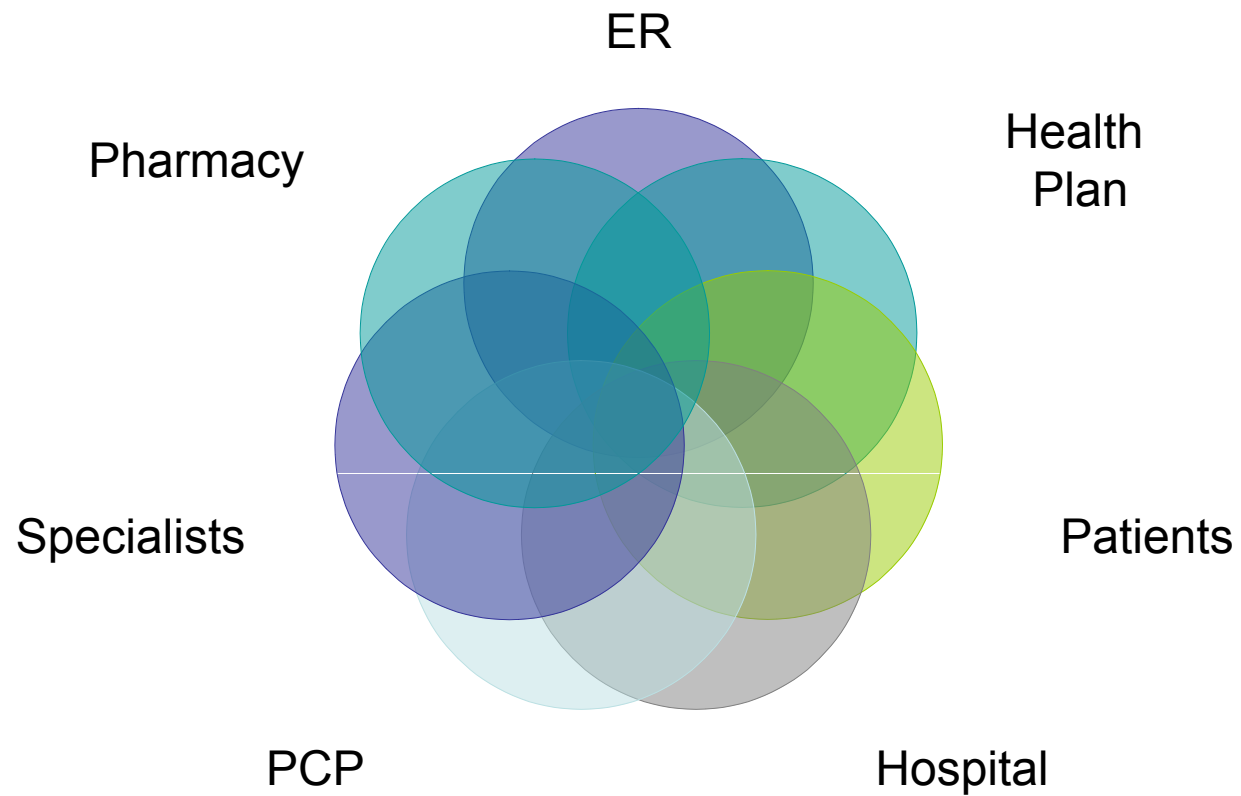
PEHRTM Technologies
Your medical records, when you need them.

Why do we need
Personal Health Records?



PEHRTM Technologies
Your medical records, when you need them.

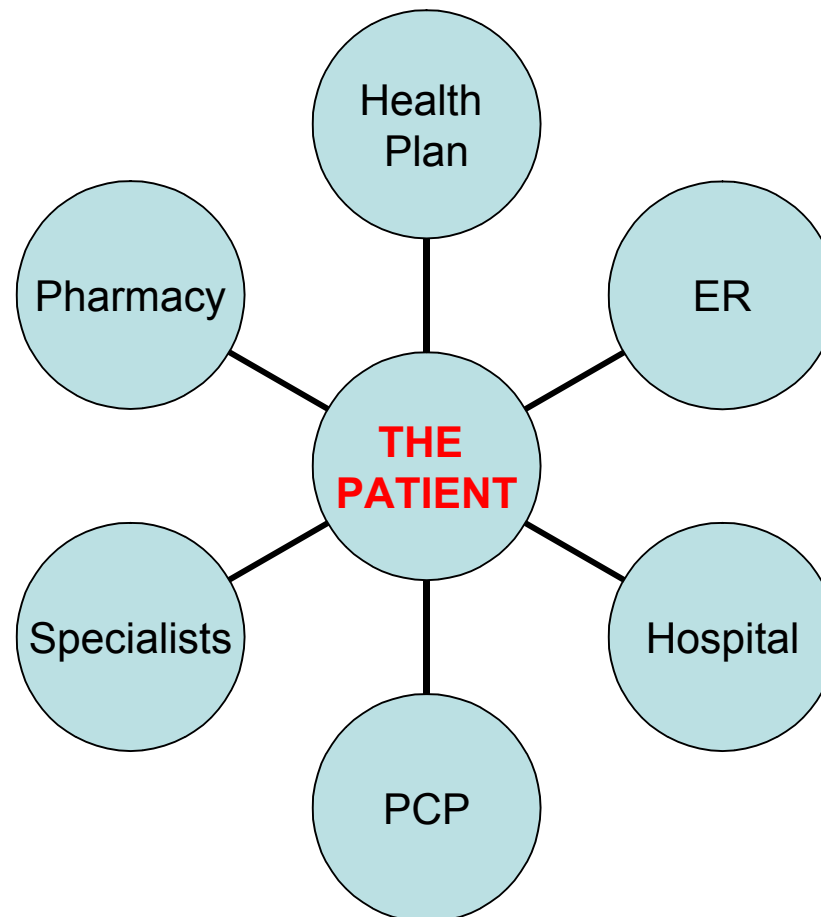
Today's Healthcare System





PEHRTM Technologies
Your medical records, when you need them.

Patient-Centered Health Care





PEHRTM Technologies
Your medical records, when you need them.

Current State of the Art

Your health history

St. Mark's Family Medicine

Medical History

Printed Name: _____ Date: 07/15/03

Patient #: _____ Name: _____ Age: _____
Birthdate: _____ Sex: M F Age: _____
Center of Record: Rr: Gw Wv Og Da Ph

Present Medical Problems

Problem	Duration
I'm having pain on right side of stomach. I think it is appendicitis. I found my partner had same problem. Also, depression.	1 year 1.5 year

List all the medications you take now: now only sleeping pills, but not every day. gabapentin

List medicines to which you are allergic: none

Other Allergies: none

Past Medical History

Immunization Dates: d/Tetanus ✓ Influenza ✓ Pneumonia ✓
Measles, Mumps, Rubella ✓

Operations: only appendix - 20 years ago

Other illnesses treated in hospital: none

Serious injuries or accidents: none

Serious illness not requiring hospitalization: none

07/15/03

Your med list

toprol XL 200 mg
1 pill twice a day
altace 10 mg 1 pill
twice a day
norvasc 5 mg 1 pill
twice a day
sepron 40 mg 1/2 at night
Prestonix 40 mg

Need
altace
norvasc



PEHRTM Technologies
Your medical records, when you need them.

Patients have difficulty with recall of their Medications

- J Gen Intern Med (1989): 32%
- Rural Community Health Center (2001): 36.4%
- Cardiology (2003): 20%
- St. Mark's (2004): 38%



PEHRTM Technologies
Your medical records, when you need them.

Types of PHRs:

Device Based vs. Web Based





PEHRTM Technologies
Your medical records, when you need them.

Security Concerns on the Web

Hackers

- 6/18/05, MasterCard International:
"Security breach exposes 40 million cards to fraud."

Security breaches have become all too common. These organizations have reported the loss of sensitive data:

LexisNexis	Bank of America
ChoicePoint	San Jose Medical Group
PayMaxx	California State University at Chico
Boston College	University of California at Berkeley



PEHRTM Technologies
Your medical records, when you need them.

Patient Preference:

79.8% of PHR users would rather store health information on their PC instead of the web.²

2. Study at the Robert H. Smith School of Business, Univ. of Maryland, Fall 2002.



PEHRTM Technologies
Your medical records, when you need them.

What is The BartlettTM?





PEHRTM Technologies
Your medical records, when you need them.

The Bartlett is:

- ✓ A Memory Tool
- ✓ A Disease Management Tool
- ✓ A Reminder Tool

Patients need help to better manage their own health care – to help them become an *active participant*.



PEHRTM Technologies
Your medical records, when you need them.

The Bartlett is Patient-Centered Solution:

Designed **by patients**

Data entered **by patients**

Access controlled **by patients**



PEHRTM Technologies
Your medical records, when you need them.

The bottom line is:

Current Standard of Care –

Information for care is based on the
patient's memory.

Imagine if the banking industry had that
standard.



PEHRTM Technologies
Your medical records, when you need them.

The BartlettTM Features:

- Access: 24/7, controlled by the patient
- Available Today
- High Security & Privacy, in your possession
- Doesn't depend on interoperability
- Links together hospitals, primary care, specialists, and ERs
- Improves patient safety
- Portable, lightweight, & inexpensive (one time cost)




PEHRTM Technologies
Your medical records, when you need them.


- Holds scanned documents, e.g. EKGs, radiology, labs, reports.
- HIPAA exempt – the patient is not a covered entity
- Links patients to health risk assessments
- Able to hold a whole family's records
- Not web based, no hacker risk
- Blends well with existing systems & organizations
- It is an incremental step toward full EHR



PEHRTM Technologies

Your medical records, when you need them.

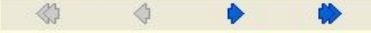
 PEHR

 **PEHRTM - Personal Electronic Health Records**


Your medical records, when you need them

The BartlettTM

MEDICAL ALERT
The patients (1) listed below have identified some type of medical alert
Use the arrows to view each patient



Patient Name	A. Sample Patient
Age	3
Contact	Joe Patient
Contact Relationship	Father
Contact Phone	801-111-1234




Alert	Description
► Allergy	Amoxicillin Reaction: Rash
Chronic Problem	Diabetes, Type 1 Diagnosed: 2005-05-10
Diabetic	Type I
Medication	Name: Lantus Insulin. Dose: 5 units. Instr: at 8 PM. Started 2005-05-10
	Name: Novalog. Instr: dose based on carbs in meal. Started 2005-05-10

Password

☒ Continue

PEHR Technologies Software - Patent Pending 2004-2006
Last Updated on 3/16/2006 10:04:58 PM

Patient: A. Sample Patient

 Browse

Notice - This is not an official physician's medical record.

1.0.0.0



PEHRTM Technologies

Your medical records, when you need them.

PEHR

File Edit Patient Pages Settings Maintenance Help

PEHRTM - Personal Electronic Health Records

Journal / Filing CabinetImages / Scanned DocumentsDiabetesPrint ReportsInternet LinksAlerts !

Patient InformationDiagnosesSurgeriesOther IllnessesMedicationsAllergiesHealth MaintenanceImmunizations

Add Patient

Delete Patient

Select Patient

Personal Information

First NameA. SampleMiddle InitialLast NamePatient

Address 12050 E. 1300 S.

Address 2

CitySalt Lake CityStateUTZip Code84112

Country

Home Phone801-111-1234GenderM

Work PhoneSSN111-22-3333

Mobile PhoneBirth Date1/25/2003

Email AddressmyDadsemail@aol.comAge3

Get PhotoDelete Photo

Emergency Contact Information

Contact NameJoe Patient

RelationshipFather

Phone Number801-111-1234

Primary Care Physician

Physician NameJohn W. Robinson, M.D.

Physician Phone801-265-2000

Physician Emailjrobinson@utahhealthcare.org

Health Insurance Information

Policy Holder NameJoe Patient

Health Insurance Co.Altius Health Plans

Group NumberA123456ID Number111-22-3333C

ALTIVS
A Coventry Health Care Plan

Patient: A. Sample Patient

Browse

Notice - This is not an official physician's medical record.

1.0.0.0



PEHRTM Technologies

Your medical records, when you need them.

PEHR

File Edit Patient Pages Settings Maintenance Help

PEHRTM - Personal Electronic Health Records



Patient Information Diagnoses Surgeries Other Illnesses Medications Allergies Health Maintenance Immunizations
Journal / Filing Cabinet **Images / Scanned Documents** Diabetes Print Reports Internet Links Alerts !

+ Add Test Result ▲ Edit Test Result - Delete Test Result Print Test Result

Images / Scanned Documents

Date	Title / Name / Result	Physician
11/9/2001	MRI of brain	Dr. John Berneike
7/27/2004	Colonoscopy	Dr. Lynn Wilcox
9/23/2003	EKG	John W. Robinson, M.D.

[Get or Replace Image](#) [Rotate](#)



Patient: A Sample Patient Browse Notice - This is not an official physician's medical record 1 0 0 0



PEHRTM Technologies
Your medical records, when you need them.

The GOAL:

Saves Lives
&
Saves Money



PEHRTM Technologies
Your medical records, when you need them.

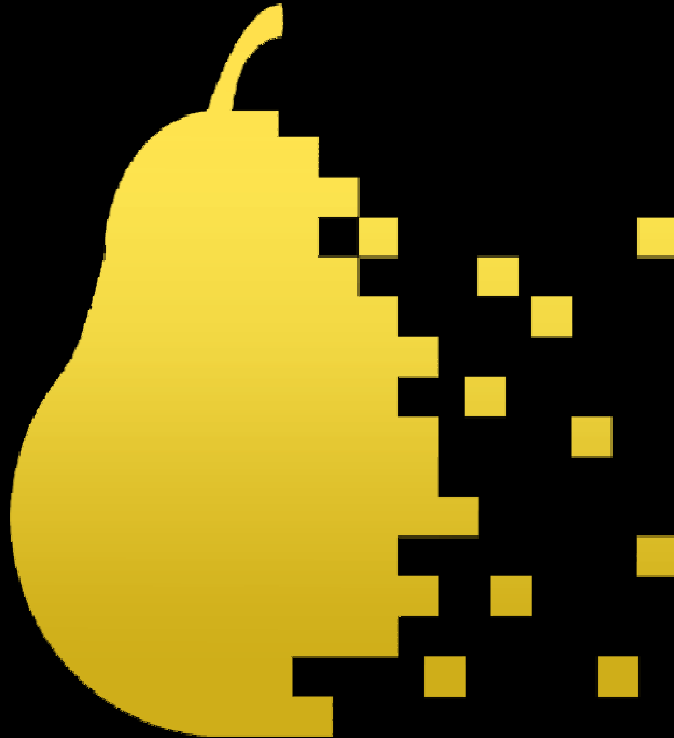
Who is responsible for your
lifetime medical record?

YOU – the Patient

Do you have the tools?



PEHRTM **Technologies**
Your medical records, when you need them.





***PEHR*TM Technologies**
Your medical records, when you need them.